

STREPTOMYCES GRISEUS
ANTIBIOTICS

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SKRIPSI

SITI ZAENAB

**UJI PENDAHULUAN PERBANDINGAN POTENSI
ANTIBIOTIKA HASIL FERMENTASI *Streptomyces griseus*
ATCC 10137 PADA pH AWAL 7,5,8,0 DAN 8,5 DENGAN
SUHU 28°C, 30°C DAN 35°C DALAM MEDIA PADAT YANG
MENGANDUNG AMPAS TAHU 2%**



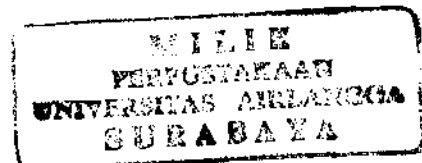
**FAKULTAS FARMASI UNIVERSITAS AIRLANGGA
BAGIAN KIMIA FARMASI
SURABAYA
2003**

Lembar Pengesahan

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**Dibuat Untuk Memenuhi Syarat
Mencapai Gelar Sarjana Farmasi
Pada Fakultas Farmasi
Universitas Airlangga**



2003

oleh :

**SITI ZAENAB
NIM : 059912137**

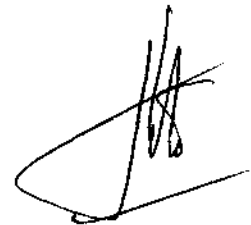
Skripsi telah disetujui oleh :

Pembimbing Utama

A handwritten signature in black ink, appearing to be "Isnaeni".

**Dr. Hj. Isnaeni, MS
NIP. 131125009**

Pembimbing Serta,

A handwritten signature in black ink, appearing to be "Soedarto".

**Dra. Soedarto
NIP. 130368706**

ABSTRACT

The potency of antibiotics of *Streptomyces griseus* ATCC 10137 that fermented in media containing tofu refuse at pH 7.5, 8.0 and 8.5 at temperature 28°C, 30°C and 35°C has been assayed.

Streptomyces griseus ATCC 10137 cultivated in solid media. Fermentation carried out by taking one Ose *Streptomyces griseus* ATCC 10137, cultivated in liquid media, then incubated with shaker for 4 day and used as a culture starter.. From starter culture cultivated in media containing tofu refuse 2% at pH 7.5, 8.0 and 8.5 then incubated at temperature 28°C, 30°C and 35°C for 13 days, in every 24 hours the potency of antibiotal test has assayed using *Bacillus subtilis* ATCC 9466 and *Escherichia coli* ATCC 25922 as a microbe test.

A resistance zone which shown as a clear area is measured. The potency of antibiotics of *Streptomyces griseus* ATCC 10137 at pH 7.5 temperature 28°C, pH 7.5 temperature 30°C, pH 8.0 temperature 28°C and pH 8.0 temperature 30°C has not shown difference meaning, whereas the pH 8.5 temperature 28°C and temperature 30°C has shown difference meaning when compared by another condition. At temperature 35°C in pH 7.5, 8.0 and 8.5 has not shown a resistance zone, its means that antibiotics is not formed at that temperature.

Keywords : Tofu refuse, *Streptomyces griseus* ATCC 10137, the potency of antibiotal test